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#### RAW SEQUENCE LISTING PATENT APPLICATION US/08/572,027A

DATE: 10/14/97 TIME: 14:02:29

INPUT SET: S20979.raw

This Raw Listing contains the General Information Section and up to the first 3 pages.

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RED
 1
                                       SEQUENCE LISTING
 2
 3
            General Information:
     (1)
          (i) APPLICANT: DeBonte, L. et al.
 6
         (ii) TITLE OF INVENTION: PLANTS HAVING MUTANT SEQUENCES THAT CONFER
 7
 8
                                   ALTERED FATTY ACID PROFILES
 9
        (iii) NUMBER OF SEQUENCES: 8
10
11
         (iv) CORRESPONDENCE ADDRESS:
12
               (A) ADDRESSEE: Fish & Richardson P.C., P.A.
13
               (B) STREET: 60 South Sixth Street, Suite 3300
14
15
               (C) CITY: Minneapolis
16
               (D) STATE: MN
               (E) COUNTRY: USA
17
               (F) ZIP: 55402
18
19
20
          (v) COMPUTER READABLE FORM:
21
               (A) MEDIUM TYPE: Diskette
22
               (B) COMPUTER: IBM compatible
23
               (C) OPERATING SYSTEM: Windows95
24
               (D) SOFTWARE: FastSEQ for Windows Version 2.0
25
         (vi) CURRENT APPLICATION DATA:
26
27
               (A) APPLICATION NUMBER: US 08/572,027
28
               (B) FILING DATE: 14-DEC-1995
29
               (C) CLASSIFICATION:
30
31
         (vi) PRIOR APPLICATION DATA:
               (A) APPLICATION NUMBER: US 08/416,497
33
               (B) FILING DATE: 04-APR-1995
               (C) CLASSIFICATION:
35
36
         (vi) PRIOR APPLICATION DATA:
37
               (A) APPLICATION NUMBER: US 08/170,886
38
               (B) FILING DATE: 21-DEC-1993
39
               (C) CLASSIFICATION:
40
         (vi) PRIOR APPLICATION DATA:
41
42
               (A) APPLICATION NUMBER: US 07/739,965
43
               (B) FILING DATE: 05-AUG-1991
44
               (C) CLASSIFICATION:
45
```

(vi) PRIOR APPLICATION DATA:

## **RAW SEQUENCE LISTING**PATENT APPLICATION *US/08/572,027A*

DATE: 10/14/97 TIME: 14:02:31

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47 48			•	•			ON NO			S 07.	/575	,542					
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50			•	.,													
51	(1	viii	AT	rorni	EY/A	GENT	INF	ORMA'	TION	:							
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54										ER:		535.	10				
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56		(ix	TEI	LECO	MUN	ICAT:	ION :	INFO	RMAT:	ION:							
57		,	•				: 613										
58			•	,			612/2										
59			•	•													
60	(2)	INF	ORMA!	rion	FOR	SEQ	ID I	NO:1	:								
61						_											
62		(i	) SE	QUEN	CE CI	HARA	CTER	ISTI	cs:								
63		•	(1	A) LI	ENGTI	H: 1	155 }	oase	pai	rs							
64	•																
65	(C) STRANDEDNESS: single (D) TOPOLOGY: linear																
66			(1	) T(	OPOL	OGY:	line	ear									
67																	
68		(ii)	) MOI	LECUI	LE TY	YPE:	DNA										
69																	
70	(iii) HYPOTHETICAL: NO																
71																	
72		(iv)	AN'	rı-sı	ENSE	: NO											
73																	
74																	
75	(A) ORGANISM: Brassica napus																
76																	
77		(ix)	,	ATURI													
78			( I	o) or	THER	INF	ORMA'	rion	: Wi.	ld t	ype 1	F fo	rm.				
79																	
80	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:																
81		(X1	) SE(	OENG	CE DI	SCR.	TLLIT	ON:	SEQ .	ID NO	0:1:						
82	* ma	aam	<b>aa x</b>	ааш	<b>aa</b> .	3.03	» ma	<b>~~ ~ ~</b>	ama	mam	aam	aaa	таа	330		mam	4.0
83										TCT							48
84		GTÀ	АТа	GTA	-	Arg	мес	GIN	var	Ser	PIO	Pro	ser	гаг	-	ser	
85 86	1				5					10					15		
87	CAA	N C C	CAC	N C C	N TO C	220	aaa	CITE A	aaa	TGC	CAC	3 (7 3	aaa	aaa	mma.	N CITT	96
88										Cys							90
89	GIU	1111	изр	20	116	цуз	ALG	Val	25	Cys	Giu	1111	FIO	30	FILE	1111	
90				20					23					30			
91	GTC	CCA	CAA	כיייכ	λλC	λλλ	CCA	Δጥሮ	CCA	CCG	CAC	ጥርጥ	ጥጥረ	ΔΔΔ	cac	TCG	144
92										Pro							111
93	,,,	O± y	35	БСС	_,,,	_,_	ni u	40		110		0,5	45	_,,	9	DCI	
94											-		13				
95	АТС	ССТ	CGC	тст	TTC	TCC	TAC	СТС	ATC	<b>4</b> TGG	GAC	ATC	АТС	ΑΤΑ	GCC	TCC	192
96										Trp							
97		50	3				55			P		60					
98										•							
99	TGC	TTC	TAC	TAC	NTC	GCC	ACC	ACT	TAC	TTC	CCT	CTC	CTC	CCT	CAC	CCT	240
														,			

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/572,027A

DATE: 10/14/97 TIME: 14:02:33

INPI	T	SET:	S20979	raw

100 101 102	Cys 65	Phe	Tyr	Tyr	Xaa	Ala 70	Thr	Thr	Tyr	Phe	Pro 75	Leu	Leu			520777.1W
103 104 105						TGG Trp									_	288
106 107 108 109 110						GTC Val										336
111 112 113 114						CTT Leu										384
115 116 117 118						TAC Tyr										432
119 120 121 122						TCC Ser 150										480
123 124 125 126						AAG Lys										528
127 128 129 130						TTA Leu										576
131 132 133 134						GTC Val										624
135 136 137 138						AAC Asn										672
139 140 141 142						GAC Asp 230										720
143 144 145 146						GGC Gly										768
147 148 149 150						ATT Ile										816
151 152						CCT Pro								TCC		864

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/572,027A

DATE: 10/14/97 TIME: 14:02:35

INPUT	SET:	S20979.raw
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														IN	<i><b>IPUT</b></i>	SET:	S20979.raw
153			275					280					285				
154																	
155	GAT	TGG	TTC	AGG	GGA	GCT	TTG	GCT	ACC	GTT	GAC	AGA	GAC	TAC	GGA	ATC	912
156	Asp	Trp	Phe	Arg	Gly	Ala	Leu	Ala	Thr	Val	Asp	Arg	Asp	Tyr	Gly	Ile	
157	_	290		_	-		295				_	300	_	_	-		
158																	
159	ттс	AAC	AAG	GTC	ттс	CAC	ААТ	АТТ	ACC	GAC	ACG	CAC	GTG	GCC	CAT	CAT	960
160				Val													,,,,
161	305		_,_			310				p	315				*****	320	
162	303					310					313					320	
163	ccc	mm.c	TOO	ACG	N TO C	ccc	CAT	תי א תי	CAC	aaa	N THICK	C A A	CCT	N.C.C	220	aaa	1008
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164	PIO	Pile	ser	Thr		PIO	птъ	TÀT	uis		Met	GIU	Ата	1111	-	АТА	
165					325					330					335		
166						~~.											
167				ATA													1056
168	TTE	Lys	Pro	Ile	Leu	GTA	GLU	Tyr		GIn	Pne	Asp	GTÀ		Pro	Val	
169				340					345					350			
170																	
171				ATG													1104
172	Val	Lys	Ala	Met	Trp	Arg	Glu	Ala	Lys	Glu	Cys	Ile	Tyr	Val	Glu	Pro	
173			355					360					365				
174																	
175	GAC	AGG	CAA	GGT	GAG	AAG	AAA	GGT	GTG	TTC	TGG	TAC	AAC	AAT	AAG	TTA	T 1153
176	Asp	Arg	Gln	Gly	Glu	Lys	Lys	Gly	Val	Phe	Trp	Tyr	Asn	Asn	Lys	Leu	
177		370					375					380					
178																	
179	GA																1155
180																	
181																	
182	(2)	INF	ORMA'	rion	FOR	SEQ	ID I	10:2	:								
183																	
184			(i):	SEQUI	ENCE	CHA	RACTI	ERIST	rics	:							
185				( A	) LEI	GTH:	384	am:	ino a	acids	5						
186				(B	TYI	E: a	amino	ac	id								
187																	
188	(D) TOPOLOGY: linear																
189		(:	ii) l	MOLE	CULE	TYPE	: E	cote	Ĺn								
190		`	,				-										
191		( )	ki) :	SEQUI	ENCE	DESC	RIP	CION	SEC	O I D	NO:2	2:					
192		, -	,	£					,								
193	Met	Glv	Ala	Gly	Glv	Ara	Met	Gln	Val	Ser	Pro	Pro	Ser	Lvs	Lvs	Ser	
194	1	1		1	5	3				10				-1-	15		
195	_				_												
196	Glu	Thr	Δsn	Thr	Tle	I.vs	Δra	Val	Pro	Cvs	G111	Thr.	Pro	Pro	Phe	Thr	
						-15	9		25	J 1 5	-14		0	30	1		
197			_	20										20			
197 198			_	20													
198			Glu		T.170	T.ve	Δlo	Tle.	<sub>s</sub> Dr∧	Pro	Hic	Cve	Phe	Luc	Δra	Ser	
198 199				20 Leu	Lys	Lys	Ala		⊳Pro	Pro	His	Cys		Lys	Arg	Ser	
198 199 200			Glu 35		Lys	Lys	Ala	Ile	⊳Pro	Pro	His	Cys	Phe 45	Lys	Arg	Ser	
198 199 200 201	Val	Gly	35	Leu			4	40				_	45	_			
198 199 200 201 202	Val	Gly Pro	35				<b>♣</b> Tyr	40				Ile	45	_			
198 199 200 201 202 203	Val	Gly	35	Leu			4	40				_	45	_			
198 199 200 201 202	Val	Gly Pro 50	35 Arg	Leu	Phe	Ser	<b>⊅</b> Tyr 55	40 Leu	Ile	Trp	Asp	Ile 60	45 Ile	Ile	Ala	Ser	

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/572,027A

DATE: 10/14/97 TIME: 14:02:38

#### INPUT SET: S20979.raw

206 207	65					70					75			II	IFUI	80
208 209 210	Leu	Ser	Tyr	Phe	Ala 85	Trp	Pro	Leu	Tyr	Trp 90	Ala	Cys	Gln	Gly	Суs 95	Val
211 212 213	Leu	Thr	Gly	Val 100	Trp	Val	Ile	Ala	His 105	Glu	Cys	Gly	His	His 110	Ala	Phe
214 215 216	Ser	Asp	Туг 115	Gln	Trp	Leu	Asp	Asp 120	Thr	Val	Gly	Leu	Ile 125	Phe	His	Ser
217 218 219	Phe	Leu 130	Leu	Val	Pro	Туr	Phe 135	Ser	Trp	Lys	Tyr	Ser 140	His	Arg	Ser	His
220 221 222	His 145	Ser	Asn	Thr	Gly	Ser 150	Leu	Glu	Arg	Asp	Glu 155	Val	Phe	Val	Pro	Lys 160
223 224 225	Lys	Lys	Ser	Asp	Ile 165	Lys	Trp	Tyr	Gly	Lys 170	Tyr	Leu	Asn	Asn	Pro 175	Leu
226 227 228	Gly	Arg	Thr	Val 180	Met	Leu	Thr	Val	Gln 185	Phe	Thr	Leu	Gly	Trp 190	Pro	Leu
229 230 231	Tyr	Leu	Ala 195	Phe	Asn	Val	Ser	Gly 200	Arg	Pro	Tyr	Asp	Gly 205	Gly	Phe	Arg
232 233 234	Cys	His 210	Phe	His	Pro	Asn	Ala 215	Pro	Ile	Tyr	Asn	Asp 220	Arg	Glu	Arg	Leu
235 236 237	Gln 225	Ile	Tyr	Ile	Ser	Asp 230	Ala	Gly	Ile	Leu	Ala 235	Val	Cys	Tyr	Gly	Leu 240
238 239 240	Phe	Arg	Tyr	Ala	Ala 245	Gly	Gln	Gly	Val	Ala 250	Ser	Met	Val	Cys	Phe 255	Tyr
241 242 243	Gly	Val	Pro	Leu 260	Leu	Ile	Val	Asn	Gly 265	Phe	Leu	Val	Leu	Ile 270	Thr	Tyr
244 245 246	Leu	Gln	His 275	Thr	His	Pro	Ser	Leu 280	Pro	His	Туr	Asp	Ser 285	Ser	Glu	Trp
247 248 249	Asp	Trp 290	Phe	Arg	Gly	Ala	Leu 295	Ala	Thr	Val	Asp	Arg 300	Asp	Tyr	Gly	Ile
250 251 252	Leu 305	Asn	Lys	Val •	Phe	His 310	Asn	Ile	Thr	Asp	Thr 315	His	Val	Ala	His	His 320
253 254 255	Pro		Ser 🍎	Thr	Met 325	Pro	His	Tyr	His	Ala 330	Met	Glu	Ala	Thr	Lys 335	Ala
256 257 258	Ile	Lys	<sub>!</sub> Pro	Ile 340	Leu	Gly	Glu	Tyr	Tyr 345	Gln	Phe	Asp	Gly	Thr 350	Pro	Val

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/572,027A

DATE: 10/14/97 TIME: 14:02:41

INPUT SET: S20979.raw

Line

Error

Original Text